

**CATALYST OF OLEFIN LOW POLYMERIZATION AND LOW POLYMERIZATION OF OLEFIN**

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**Inventor:** OGURI MOTOHIRO; AOYAMA TAKAMITSU; MIMURA HIDEYUKI; KOIE YASUYUKI  
**Applicant:** TOSOH CORP  
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**Abstract of JP8325317**

**PURPOSE:** To obtain the subject catalyst comprising a chromium compound, an alkyl metal compound and a specific Lewis acid, capable of carrying out low polymerization reaction in extremely high activity.  
**CONSTITUTION:** This catalyst for low polymerization for an olefin comprises (A) a chromium compound, (B) an alkyl metal compound and (C) a Lewis acid of the formula  $M(Ar)_1$  (l is 2-4; M is an element of the group IIB, IIIB or IV B group of the periodic table; Ar is an aryl) such as tris (pentafluorophenyl) boron. Preferably the component A is a compound of the formula  $CrAmBn$  (m is 1-6; n is 0-4; A is a 1-20C alkyl, alkoxy, carboxyl, &beta;-diketonate, etc.; B is a nitrogen-containing compound, a phosphorus-containing compound, an arsine-containing compound, etc.), the component B is a compound of the formula  $M'RpXq$  (P is  $0 < p \leq 3$ ; q is  $0 \leq q < 3$ , p+q is 1-3; M' is lithium, magnesium, zinc, etc.; R is a 1-10C alkyl; X is H, an alkoxy, aryl, etc.), the olefin is ethylene and a main component substance is 1-hexene.

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